

HUMIDITY SEPARATORS

**S25/S
PN 63**

DESCRIPTION

S-25 series centrifugal separators remove moisture from steam and compressed air pipelines. Steam and compressed air passing through the separator and as a result of centrifugal forces, impact and swirling effects, separate the particles with a heavier specific gravity, such as water and oil droplets, moisture in suspension, dirt and scale.

The condensate collected at the bottom of the separator, must be automatically drained by a suitable steam or compressed air trap.

Connections are flanged.

MAIN FEATURES

Several possibilities of installation.

No moving parts.



OPTIONS: Zinc plated fabricated carbon steel construction (compressed air)
Condensate flanged connection.

USE: Steam, compressed air and other gases (Group 2).

AVAILABLE MODELS: S25/S - carbon steel body.

SIZES: DN15 to DN200.

PIPE CONNECTIONS: Flanged EN1092-1 PN 63
ANSI Class 600 lbs
SW - Socket weld to ANSI B 16.11

INSTALLATION: Always with the condensate discharge pointing downwards.
See IMI, installation and maintenance instructions.

HOW TO SELECT: Generally, in an existing plant it is advisable to fit a separator of the same size of the pipe line. Pressure drop is normally negligible. For approximate pressure drop calculation please consult.



| LIMITING CONDITIONS | | |
|---------------------|------------|----------|
| Rating | Press. bar | Temp. °C |
| PN63 | 63 | 120 |
| ANSI | 50 * | 200 |
| CL.600lbs | 40 | 300 |

*PMO-Max.operating pressure for saturated steam. Minimum operating temp.: -10°C. Design code: AD-Merkblatt

| CE MARKING - GROUP 2 GASES CAT. | | |
|---------------------------------|----------------|------|
| RATING | SIZE | CAT. |
| PN63 | DN15 to DN25 | 1 |
| | DN32 to DN50 | 2 |
| | DN65 to DN100 | 3 |
| | DN125 to DN200 | 4 |

CE Marking

This product have been designed for use on water steam, air and other gases which are in Group 2 of the PED-European Pressure Equipment Directive 97/23/EC and it comply with those requirements. The product carries the CE mark when falling in category 1 and above.

| APPROXIMATE DIMENSIONS (mm) | | | | | | | | | | |
|-----------------------------|------|-----|------|-----|-----|------|----------|--------|------|--------|
| DN | A EN | B | C | D | E | F ** | VOL. dm3 | WGT Kg | G SW | WGT Kg |
| 15* | 245 | 114 | 260 | 180 | 80 | 1/2" | 2 | 5,5 | 200 | 4,5 |
| 20* | 245 | 114 | 260 | 177 | 83 | 1/2" | 2,5 | 6,5 | 190 | 4,6 |
| 25* | 265 | 114 | 300 | 218 | 82 | 1/2" | 3 | 7,8 | 205 | 5,5 |
| 32* | 295 | 140 | 395 | 295 | 100 | 1/2" | 5 | 12,8 | 238 | 8,8 |
| 40* | 295 | 140 | 435 | 333 | 102 | 1/2" | 5,7 | 14,4 | 245 | 9,7 |
| 50 | 340 | 168 | 505 | 378 | 127 | 1/2" | 10,5 | 20,6 | 300 | 15,6 |
| 65 | 410 | 219 | 550 | 400 | 150 | 3/4" | 18,5 | 33 | - | - |
| 80 | 430 | 219 | 610 | 453 | 157 | 3/4" | 25 | 39 | - | - |
| 100 | 510 | 273 | 715 | 520 | 195 | 3/4" | 35,4 | 58,5 | - | - |
| 125 | 595 | 324 | 845 | 585 | 260 | 1" | 50 | 83 | - | - |
| 150 | 625 | 356 | 960 | 665 | 295 | 1" | 75 | 155 | - | - |
| 200 | 680 | 406 | 1170 | 800 | 370 | 1" | 140 | 178 | - | - |

Weight and dimensions to be confirmed in case of order.

* Supplied with flanges PN100

** F-screwed drain connection as standard. Alternativley can be supplied flanged EN1092-1 or ANSI on the same class of main dimensions.

ANSI flanges 600 lbs available on request.

Consult factory for certified dimensions. Dimensions subject to change without notice.

Note: the top of separator is supplied with a threaded connection with size not exceeding the size of drain one. This connection is always supplied closed with a threaded socket. It can be used for air vent or balancing pipe connection.

| MATERIALS | | FLANGE CONNECTIONS | | | |
|----------------------|-----------------------------|--------------------|---------------|----------------|-----------------------|
| DESIGNATION | MATERIAL | Rating | Sep. SIZE | EN STD. | ANSI STD. |
| Body | EN10216-2 / P235GH / 1.0305 | PN63 | DN15 to DN40 | EN1092-1 PN100 | ANSI B16.5 Cl.600 lbs |
| Heads | EN10028-2 / P265GH / 1.0425 | PN63 | DN50 to DN200 | EN1092-1 PN63 | ANSI B16.5 Cl.600 lbs |
| Inlet / Outlet pipes | EN10216-2 / P235GH / 1.0305 | | | | |
| DIN flanges | EN10222-2 / P250GH / 1.0460 | | | | |
| ANSI flanges | ASTM A105 / 1.0432 | | | | |
| Sockets | ASTM A105 / 1.0432 | | | | |
| Internals | EN10025-2 / S235JR / 1.0038 | | | | |

EN10204 3.1 certificate available if requested with the order.

